

CLAIMS

1. A process unit, comprising:
 - a real data generator;
 - a buffer, arranged to store real data generated by said real data generator;
 - a connection for transmitting data from said buffer;
 - a queue length monitor, monitoring the queue length in said buffer;and
 - a dummy load generator, arranged to store dummy data in said buffer at a dummy data rate being regulated based on said monitored queue length;
 - whereby said real data generator is regulated based on said monitored queue length.
2. The process unit according to claim 1, wherein a maximum value of said dummy data rate is determined based on at least one of:
 - the regulation response time of said real data generator, and
 - the generation rate of said real data.
3. A process system, comprising :
 - at least one process unit having a real data generator, a first buffer arranged to store real data generated by said real data generator, a queue length monitor monitoring the queue length in said first buffer, and a dummy load generator arranged to store dummy data in said first buffer at a dummy data rate being regulated based on said monitored queue length, whereby said real data generator is regulated based on said monitored queue length;
 - a transmitter connected to said first buffer;
 - a link over which data from said first buffer is transmitted by said transmitter; and
 - a receiver receiving said data from said transmitter, said receiver being arranged to discard received dummy data.

4. The process system according to claim 3, wherein a maximum value of said dummy data rate is determined based on at least one of:

the regulation response time of said real data generator, and
the generation rate of said real data.

5. The process system according to claim 4, further comprising a second buffer arranged between said real data generator and said first buffer to store only real data, for detection of said generation rate of said real data.

6. The process system according to claim 3, having at least a first and a second process unit, wherein said transmitter is connected to said first buffer of both said first and said second process unit, whereby said link transmits data from both of said process units.

7. The process system according to claim 6, wherein the dummy data rate of said first process unit is different from the dummy data rate of said second process unit.

8. The process system according to claim 6, further comprising communication means between said first process unit and said second process unit for exchange of regulation information, of which at least a part being selected from the list of:

information about dummy data rates,
information about generation rates of real data
information about any degree of regulation of the real data generation,
information about queue lengths, and
information about queue length growth rates.

9. The process system according to claim 8, wherein at least one of the dummy load generators comprises means for regulating the maximum value of said dummy data rate based on said regulation information.

10. A method of transmission, comprising the steps of:

generating real data,
storing said real data in a first buffer,
generating dummy data,
storing said dummy data in said first buffer at a dummy data rate,
transmitting data from said first buffer,
monitoring the queue length in said first buffer,
regulating the speed of the real data generation based on said
monitored queue length, and
regulating said dummy data rate based on said monitored queue
length.

11. The method of transmission according to claim 10, further comprising the step of determining a maximum value of said dummy data rate based on at least one of:

the regulation response time of said real data, and
the generation rate of said real data.

12. The method of transmission according to claim 10, wherein said step of regulating of said dummy data rate in turn comprises the step of reducing the dummy data rate.

13. The method of transmission according to claim 12, wherein said step of regulating of said dummy data rate comprises the step of stopping said dummy data storing.

14. The method of transmission according to claim 10, in a system of at least two process units sharing a common link, further comprising the step of communicating regulation information between dummy load generators, whereby at least a part of said regulation information being selected from the list of:

information about dummy data rates,
information about generation rates of real data
information about any degree of regulation of the real data generation,

information about queue lengths, and
information about queue length growth rates.

15. The method of transmission according to claim 14, further comprising
the step of regulating said maximum dummy data rate of at least one of said
dummy load generators based on said regulation information.

16. The method of transmission according to claim 15, wherein said step of
regulating said maximum dummy data rate is performed if uneven restrictions
of the current dummy data rates are detected.

17. The method of transmission according to claim 10, further comprising
the step of measuring the generation rate of real data by storing said real data
in a second buffer, prior to the storage in said first buffer.

18. Use of a process unit according to claim 1 in a datacommunication or
telecommunication system.

19. Use of a process system according to claim 3 in a datacommunication
or telecommunication system.

20. Use of a method according to claim 10 in a datacommunication or
telecommunication system.